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(54) SURFACE TREATING LIQUID FOR ZINC OR ZINC ALLOY PLATED STEEL PLATE

(57)Abstract:

PURPOSE: To provide a surface treatment liquid capable of forming a harmless layer having excellent corrosion resistance and adhesivity to coating layer on the surface of zinc or galvanized steel plate by inclusion of metal salt of phytic acid and one or more of polyamines represented by a specific formula.

CONSTITUTION: A proper amount of an alkali metal salt to phytic acid or its zincate, one or more of polyamines such as ethylenediamine and diethylenetriamine represented by a general formula (A and B: hydrogen or 3-aminopropyl gp., n: an integer of 1W10) is dissolved into solvent (preferably water) to form a surface treating agent. The treating agent forms on the surface of zinc or zinc alloy plated steel plate a corrosion resistant layer which contains no Cr, and gives good coating adhesivity and corrosion resistance after coating.

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